

ACC NR: AR6017151

SOURCE CODE: UR/0275/66/000/001/B015/B015

AUTHOR: Vilisova, M. D.; Lavrent'yeva, L. G.; Murashko, V. S.; Presnov, V. A.

TITLE: Production and analysis of gallium arsenide films

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 1B106

REF SOURCE: Sb. Poverkhnostn. i kontaktn. yavleniya v poluprovodnikakh. Tomsk,
Tomskiy un-t, 1964, 422-431TOPIC TAGS: gallium arsenide, semiconducting film, polycrystalline film, Hall effect,
thermoelectric phenomenon, thermal emfTRANSLATION: Gallium arsenide films with Se and Zn impurities were obtained using
thermal precipitation and chemical reaction (in the presence of iodine) in a quartz
container. The use of iodine facilitated the deposition of film at a rate of 50 to 100
μ per hr. The investigation of temperature dependence of the Hall effect coefficient,
and the thermal emf coefficient over the 0-180°C interval, showed that the concentra-
tion of the electric charge carriers does not vary over this temperature range; the
electric conductivity does increase, however, due to the intercrystalline layers. The
thermal emf coefficient increases logarithmically. An investigation of film isothermy
over its thickness and the distribution of impurities was carried out. A. P.

SUB CODE: 20

UDC: 621.315.592:540.552:546.19'681

Card 1/1

L 3872-66 AM5023905	IS-T(1) TR/GW	BOOK EXPLOITATION	UR/ 16 BT/
<p>Kalachev, Nikolay Stepanovich; Lavrent'yeva, Lyubov' Dmitriyevna</p> <p>An evaluation of the water power capacity of rivers of the Kazakh S.S.R.; potential resources (Vodnoenergeticheskiy kadastr rek Kazakhskoy SSR; potentsial'nyye resursy) Alma-Ata, Izd-vo "Nauka", 1965 706 p. illus., tables, fold. maps. (At head of title: Akademiya nauk Kazakhskoy SSR. Gosudarstvennyy komitet po energetike i elektrifikatsii SSSR. Institut energetiki), 1350 copies printed.</p>			
<p>TOPIC TAGS: hydrographic survey, hydrology, water management, hydroelectric engineering</p> <p>PURPOSE AND COVERAGE: Study of water-power resources in the Kazakh-skaya SSR was started on a large scale, with the organization in 1944 of a special institute of power engineering at the Kazakh Branch of the Academy of Sciences USSR. This institute completed the first comprehensive evaluation of the water-power potential of the republic, initially covering the 130 largest rivers; subsequently, detailed analysis of water-power resources in individual region of Kazakhstan was undertaken. The present monograph summarizes the results of the work of the institute, conducted over</p>			
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13872-66

AM5023905

many years under the direction and direct participation of the authors. The water-power evaluation includes detailed characteristics of 2,174 rivers of the republic (over 10-km long), water-power potential of which is estimated to be 172.6 billion kw-hr a year. Information is given for six separate regions: southern, southeastern, eastern, northern, central, and western. The tables include data on the length of rivers, flow gradient, watershed areas, and power resources. The book is intended for workers of scientific research organizations and industrial enterprises, dealing with the planning and development of water management installations and systems in the republic. Numerous tables and charts are included.

TABLE OF CONTENTS [abridged]:

Editor's note -- 3

Foreword -- 6

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1. Rivers of southern Kazakhstan -- 47
2. Rivers of southeastern Kazakhstan -- 171
3. Rivers of eastern Kazakhstan -- 415
4. Rivers of northern, central, and western Kazakhstan -- 631

SUB CODE: ES SUBMITTED: 10Mar65 NO REF SOV: 000

OTHER: 000


Card 3/3

MAGNITSKIY, V.A.; LAVRENT'YEVA, L.L.

Effectiveness of antibacterial therapy in tuberculosis without
hormonal preparations and combined with these preparations.
Sov. med. 27 no.12:37-40 D'63 (MIRA 17:4)

1. Iz kafedry tuberkuleza (z av. - prof. I. Ye. Kochnova)
II Moskovskogo meditsinskogo instituta imeni Pirogova.

13760-65 EMT(m)/EMP(n)/EWA(d)/T/EMP(i)/EMP(k)/EMP(b) DP-4 ASD(m)-3

MJW/JD/HW

ACCESSION NR: AP4044134

S/0129/64/000/008/0016/0021

AUTHOR: Blanter, M. Ye.; Prozorov, L. V.; Layrent'yeva, L. P.;
Serebrenikova, B. G.; Smirnov, Ye. I.; Raytov, V. D.

TITLE: Effect of thermomechanical treatment of steel by extrusion
on mechanical properties

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 8,
1964, 16-21, and insert facing p. 41

TOPIC TAGS: thermomechanical treatment, steel thermomechanical
treatment, high temperature thermomechanical treatment, low tempera-
ture thermomechanical treatment, ausforming, extrusion ausforming

ABSTRACT: Specimens of 40KhNMA steel (0.34% C, 0.72% Cr, 1.41% Ni
and 0.25% Mo), 18 mm in diameter and 60 mm long, were subjected to
high- and low-temperature thermomechanical treatments (HTTMT and
LTMT) by extrusion in order to determine the effect of HTTMT and
LTMT conditions on mechanical properties. The specimens were aus-
tenitized at 950°C for 30 min, cooled to 850°C (HTTMT) or 550°C (LTMT),

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L 15760-65
ACCESSION NR: AP4044134

and extruded with reductions of 30-80%, or cooled to 850-300C and extruded with a reduction of 700%. All the extruded specimens were oil quenched immediately after extrusion. The extrusion was performed at a rate of 150 mm/sec in a 200-ton hydraulic press at a specific pressure of 9.1-11.0 tons/cm² at 850C and 24.0 tons/cm² at 550C. The best combination of mechanical properties was produced by extrusion at 850 or 550C with a reduction of 50--80% followed by oil quenching and tempering at 100C. Specimens extruded at 850C with a reduction of 80% had a tensile strength of 215 kg/mm², yield strength of 170 kg/mm², elongation of 11.5%, reduction of area of 52.0%, and notch toughness of 6.5 mkg/cm². Corresponding values for specimens extruded at 550C were 238 kg/mm², 185 kg/mm², 10.8%, 42.0%, and 8.1 mkg/cm², and for conventionally heat treated specimens, 200 kg/mm², 160 kg/mm², 9%, 30%, and 5.3 mkg/cm². The best strength characteristics were attained with extrusion at 550-850C and the best ductility characteristics, with extrusion at 700-850C. Increase of reductions over 30% was accompanied by an increase in ductility without strength drop. High reductions at 850C produced a recrystallization which had no detrimental effect on the strength. Orig. art. has: 6 figures.

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L 15760-65
ACCESSION NR: AP4044134

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy Institut
(All-Union Machine-Building Correspondence Institute); TANIITMASH

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 001

Card 3/3

LAVRENT'YEVA, M. (Tashkent)

Underground irrigation. Tekh.mol. 29 no.5:33 '61. (MIRA 14:5)
(Irrigation) (Agricultural machinery)

38303 LAVRENT'YEVA, M. I.

Lecheniye dlitel'nym snom i perelivaniyem krovi yazvennoy bolezni. Sov.
meditsina, 1949, No 12, s. 11-12

LAVRENT'YEVA, M. I.

Potatoes

Potato cultivation under conditions of the Pechora region. Sad i og., No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

ZAKHAROV, I.D.; PONOMAREVA, G.M.; LAVRENT'YEVA, N.A. (Omsk)

Absorption of radioactive phosphorus by normal and pathologically altered skin in man. Med.rad. no.5:75-76 '62. (MIRA 15:2)
(PHOSPHORUS-ISOTOPES) (SKIN)

L 03018-67 EWT(1) IJP(c) CG

ACC NR: AP6028218

SOURCE CODE: UR/0199/66/007/003/0559/0576

AUTHOR: Lavrent'yev, M. M.; Vasil'yev, V. G.30
B

ORG: none

TITLE: On the formulation of several incorrect problems of mathematical physics

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 7, no. 3, 1966, 559-576

TOPIC TAGS: integral equation, boundary value problem, Cauchy problem, Laplace equation, partial differential equation

ABSTRACT: The solution of the general equation

$$A\phi = f. \quad (1)$$

is said to be correctly formulated if there exists a function $B(f)$ defined and continuous in all F and inverse to the function $A(\phi)$, where F is a total metric space and $A\phi$ is a function with a region of definition $\Phi' \subseteq \Phi$. Approaches to incorrect problems are set forth using the classical Cauchy problem for Laplace's equation as an example. The first approach involves altering the notion of correctness. Tikhonov's method, for example, defines for (1) a closed set $M \subseteq \Phi$ and proceeds from the rules: 1) it is known *a priori* that a solution ϕ exists for some class of data and belongs to M ; 2) the solution is unique in the class of functions belonging to M ; 3) corresponding to

UDC: 517.944

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L 03018-67

ACC NR: AP6028218

infinitely small changes in f which do not carry ϕ outside of M are infinitely small variations in the solution. Another method is to retain the notion of correctness according to Hadamard, but to change the definition of a solution. A more general method is also described. A probabilistic approach is given in detail and illustrated in the solution of linear integral equations of the first order convolution type. Orig. art. has: 95 formulas.

SUB CODE: 12/ SUBM DATE: 05Apr65/ ORIG REF: 007/ OTH REF: 006

[Signature]
Card 2/2

LAVRENT'YEVA, N.B. (Moskva)

Histopathology of sensory innervation of the large intestine in dysentery in young children. Arkh.pat. 18 no.4:76-81 '56 (MIRA 11:10)

1. Iz laboratorii neyrologicheskoy i patologicheskoy fiziologii AMN SSSR. Plechikova) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.
(DYSENTERY, in inf. and child
histopathol. of sensory innerv. of colon (Rus))

(COLON, pathol. innerv.
histopathol. of sensory innerv. in dysentery in child (Rus))

USSR/Human and Animal Morphology (Normal and Pathological) Nervous S
System

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31203

Author : Levrent'evs N.B.

Inst : Not Given

Title : On the Question Concerning the Sensory Innervation of Muscles
of the Tongue of a Dog.

Orig Pub : Byul. Mosk. o-va ispyt. prirody, Otd. biol., 1957, 62, No 2,
105-106

Abstract : The plica (L) of the tongue (spindle-like formation which ex-
tends from the tip to the frenulum) possesses a compound
motor and sensitive innervation. The motor nerve fibers
penetrate under the capsule together with the vessels and form
motor end-plates. The sensory terminals of L are sub-
divided into: sensory branches of different degree of com-
plexity are met in great quantity, they form a continuous re-
ceptor field in the capsule; fine short-ramifying branches
which lie in the location of the special muscle attachment

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USSR/Human and Animal Morphology (Normal and Pathological) Nervous S
System.

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31203

point of the tongue to the capsule of L; end-bulbs of the Kreuse type in the capsule and in the surrounding tissues. By the method of transection, it was established that the sensory innervation of L is accomplished by the lingual nerves, while the motor innervation is accomplished by sublingual nerves. The glossopharyngeal nerve plays an insignificant part in the innervation. Clearly L cannot be studied only as a motor formation, but its receptor function must also be taken into account.

Cerd : 2/2

LAVRENT'YEVA, N.B. (Moskva, G-270, Frunzenskaya naberezhnaya, 50, kv.476)

Problem of the structure of the peripheral end of the gustatory
analyzer in man. Arkh anat. gist i embr. 38 no. 6:57-63 Je '60.
(MIRA 13:12)

1. Laboratoriya neyrohistologii (zav. - doktor biologicheskikh
nauk Ye.K. Plechkova) Instituta normal'noy i patologicheskoy
fiziologii.
(TONGUE—INNERVATION) (TASTE)

LAVRENT'YEVA, N.B. (Moskva, G-270, Frunzenskaya nab., 50, kv.476)

Histophysiology of the taste buds of the tongue in mammals. Arkh. anat. i embr. 41 no.10:70-77 O '61. (MIRA 14:12)

1. Laboratoriya neyrogistologii imeni B.I.Lavrent'yeva (zav. - doktor biologicheskikh nauk Ye.K.Plechkova) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.
(TONGUE INNERVATION) (TASTE)

LAVRENTIEVA, N.B.; KHAYSMAN, Ye.B.

Histochemical study of alkaline and acid phosphomonoesterases
in the baroreceptors of the aortal arch. Trudy Inst. norm. i
pat. fiziol. AMN SSSR 6:97-99 '62 (MIRA 17:1)

1. Laboratoriya neyrogistologii imeni B.I.Lavrent'yeva
(zav. - prof. Ye.K.Plechkova) Instituta normal'noy i patolo-
gicheskoy fiziologii AMN SSSR.

KHAYSMAN, Ye.B. (Moskva, A-57, Leningradskiy pr., 75, kv.107); LAVRENT'YEVA,
N.B. (Moskva, G-270, Prunzenskaya nab., 50, kv.476)

Histochemical study of the enzymatic activity of the receptors in
the depressor zone of the aortic arch in dogs. Arkh.anat.,gist.
i embr. 44 no.1:62-68 Ja '63. (MIRA 16:5)

1. Laboratoriya nevrogistologii imeni B.I. Lavrent'yeva (zav. -
prof. Ye.K. Plechkova) Instituta normal'noy i patologicheskoy
fiziologii AMN SSSR.
(AORTA--INNERVATION) (ENZYMES)

LAVRENT'YEVA, N.B. (Moskva, G-270. Frunzenskaya naberezhnaya, 50,
kvartira 476)

Morphology of the sensory and effector innervation of the intra-
mural ganglia in the mammalian esophagus. Arkh. anat. glist. i
embr. 45 no.9:44-50 S'63 (MIRA 17:3)

1. Laboratoriya neirogistolologii imeni B.I. Lavrent'yeva (zav. -
prof. Ye.K.Plechkova) Instituta normal'noy i patologicheskoy
fiziologii AMN SSSR, Moskva.

LAVRENT'YEVA, N.B.; KHAYSMAN, Ye.B.

Histochemical studies on succinic dehydrogenase in the baroreceptors
of the depressor zone of the aortic arch in dogs. Trudy Inst.norm.
i pat.fiziol. AMN SSSR 7:61-62 '64. (MIRA 18:6)

1. Laboratoriya nevrogistologii (zav. - prof. Ye.K.Plechkova)
Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

KHAYSMAN, Ye.B.; LAVRENT'YEVA, N.B.

Morphology of the vegetative component of the depressor zone
of the aortic arch. Dokl. AN SSSR 157 no.3:674-677 Jl '64.
(MIRA 17:7)

1. Institut normal'noy i patologicheskoy fiziologii AMN SSSR.
Predstavлено академиком А.Н. Бакулем.

AUTHORS: Alekseyev, N.F., Yakobson, L.G., Dvinyanina, M.P., 32-3-12/52
Lavrent'yeva, N.N.

TITLE: The Accelerated Analysis of Mixtures Containing Ammonia and
Methylamine (Uskorennyy analiz smesey, soderzhashchikh amniak i
metilaminy)

PERIODICAL: Zavodskaya Laboratoriay, 1958, Vol. 24, Nr 3, pp. 283-287 (USSR)

ABSTRACT: A method of determination was worked out which was developed from three different methods. One of them is the chromatographic analysis according to Fuks and Rappoport Ref. 37. From a hydrochloric acid solution three samples are taken. In the first sample dimethylamine is determined polarographically or by the hydrazine method. In the second sample the hydrochlorides of ammonia and methylamine are treated with butanol and chloroform. The third sample serves for the chromatographic determination of trimethylamine. Should the solution contain less than 0.25 g/l ammonia, determination of ammonium chloride cannot be carried out with butanol but according to Leon Ref. 2, by a precipitation with

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The Accelerated Analysis of Mixtures Containing Ammonia and Methylamine

32-3-12/52

sodium cobaltinitrite. The extraction of trimethylamine in chromatographic determination is carried out, instead of with butanol, with benzene according to Gerber and Hildi /Ref.97/. as in this way a better separation is attained. Chromatographic determination was carried out in a mixture of starch and calcium oxide with bromothymol blue. titration is carried out with a 0.02-0.05n sulphuric acid solution. The accuracy attained satisfied the demands made by industry and analysis is said to take three hours. There are 2 tables, and 9 references, 5 of which are Slavic.

ASSOCIATION: Kemerovo Nitrogen Fertilizers Plant (Kemerovskiy azotno -tukovyj zavod)

AVAILABLE: Library of Congress

- | | |
|--------------------------------|-----------------------------------|
| 1. Ammonium compounds-Analysis | 2. Methylamine compounds-Analysis |
| 3. Butanol-Applications | 4. Chloroform-Applications |

Card 2/2/

LAVRENT'YEVA, N.N.

Need for a revision of the state standards for the products of
chemical industries. Khim. prom. 42 no.9:680-681 S '65.
(MIRA 18:9)

LAVRENT'YEVA, P.I., red.

[On the development of the W.F.T.U. policy of unity in defense of workers' rights and the analysis of the struggle of the workers of the world in the light of putting into practice the program of actions adopted by the Fifth World Congress of Trade Unions; report of Louis Saillant, Secretary General of the W.F.T.U.] O razvitiu politiki edinstva VFP v dele zashchity interesov i prav trudiashchikhsia i analiz bor'by trudiashchikhsia mira v svete osushchestvleniya programmy deistvii, priinato: V Vsemirnym kongressom proisoiuzov doklad Lui Saiiana, general'nogo sekretaria VFP. Moskva, Profizdat, 1965. 97 p. (MIRA 18:7)

1. World Federation of Trade Unions. General Council.

LAVRENT'YEVA, S. F.

Category: USSR / Physical Chemistry - Surface phenomena. Adsorption.
Chromatography. Ion exchange.

B-13

Abs Jour: Referat Zhur-Khimika, No 9, 1957, 30218

Author : Samsonov G. V., Bresler S. Ye., Vansheydt A. A., Kuznetsova N. N.,
Lavrent'yeva S. F., Shesterikova M. P.

Inst : not given

Title : Sorption of Streptomycin by Carboxyphenol Resins

Orig Pub: Antibiotiki, 1956, 1, No 5, 42-46

Abstract: Trivalent cathions of streptomycin (Str^{3+}) are sorbed irreversibly at sulfocathionites while with purely carboxylic cathionites (KFU and KMT) absorption capacity for Str^{3+} amounts to only 38-22% of their capacity for simple inorganic cathions (Na^+ and Ca^{2+}), evidently due to steric hindrances caused by excessively close distribution of carboxyl groups. It was found, in accord with the theoretical assumption, that the readily swelling, capable of ion-exchange

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-25-

Category: USSR / Physical Chemistry - Surface phenomena. Adsorption.
Chromatography. Ion exchange

B-13

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30218

throughout their bulk, resins of the mixed carboxy-phenol type (KRFFU, KRFU, Czechoslovak ROA resin), of strongly reduced general exchange capacity (phenolic OH groups do not participate in the exchange), exhibit considerably greater relative adsorption capacity for Str^{3+} . It is shown that the constant of $\text{Str}^{3+}-\text{Na}^+$ exchange at carboxy-phenolic resins differs little from the constants at purely carboxylic resins.

Card : 2/2

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SAMSONOV, G.V.; SHUVALOVA, L.M.; SHESTRIKOVA, M.P.; LAVRENT'YEVA, S.E.;
MASLEKHNIKOVA, V.S.; KOCHNOVA, A.A.; BOZAEVA, V.V.

Statics and dynamics of the ion exchange of aureomycin and terramycin
with hydrogen and sodium ions on cationites. Kell.zhur.18 no.4:474-479
(MIRA 9:10)
Jl-Ag '56.

1.Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR, Lenin-
grad.
(Ion exchange) (Aureomycin) (Terramycin)

LAVRENT'YEVA, S. F.

SAMSONOV, G.V.; LAVRENT'YEVA, S.F.; SHESTARIKOVA, M.P.

Dynamics of streptomycin sorption by carboxyl resins in the presence
of polyvalent metal ions [with summary in English] Antibiotiki,
2 no.2:32-35 Mr-Ap '57 (MLRA 10:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Leningradskiy
khimiko-farmatsevticheskiy institut.

(STREPTOMYCIN

dynamics of sorption by carboxyl resins in presence of
polyvalent metal ions)

(RESINS

carboxyl resins sorption of streptomycin, dynamics in
presence of polyvalent metal ions)

(IONS, eff.

polyvalent metal ions.)

LAVRENT'YEVA, S.F.

SAMSONOV, G.V., DMITRIYENKO, L.V., SIROTA, A.G., SHESTERIKOVA, M.P.,
LAVRENT'YEVA, S.F.

Physicochemical properties of albomycin [with summary in English]
(MIRA 11:6)
Biokhimiia 23 no.2:220-224 Mr-Ap '58

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Khimiko-
farmatsevticheskii institut, Leningrad.
(ANTIBIOTICS.
albomycin, physicochem. properties (Rus))

S/138/60/000/003/006/007
A051/A029

AUTHORS: Lavrent'yeva, T.L.; Molodtsova, L.S.; Kirshentshteyn, N.I.; Trun-
bachev, V.F.

TITLE: The Polarization-Optical Method for Investigating Tensions in Seal-
ing Parts

PERIODICAL: Kauchuk i Rezina, 1960, No. 3, pp. 37 - 40

TEXT: The distribution of stress in rubber sealing parts was studied by experiment. If the magnitude and distribution of the stress is known, new parts can be designed on a scientific basis and the existing models can be investigated. The applied polarization-optical method helps to investigate the stress distribution and magnitude depending on the size and shape of the part. References 3, 4 and 5 give details of this method. It is based on the fact that most transparent isotropic materials acquire under stress the property of double refraction, the magnitude of which is connected with the magnitude of the tension and can be measured with an optical apparatus. It is established that the difference of the velocities, and, therefore, the optical difference of the beam's path G , is proportional to the difference of the main normal tensions ($\sigma_1 - \sigma_2$). The

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S/138/60/000/003/006/007
A051/A029

The Polarization-Optical Method for Investigating Tensions in Sealing Parts

following formula was derived: $G = cd (\sigma_1 - \sigma_2)$, where c is the optical constant of the material, determined experimentally, d is the thickness of the model. The authors made a study of the state of stress under different pressures of the medium depending on the design of the sealing and landing space and on the size and strength of the bracelet springs. Models made of optically-active material, i.e., igdantine prepared on a gelatin and glycerol base, were studied. The procedure is explained in detail and diagrammatic sketches of the parts studied are submitted. Figure 4 represents a diagram of the distribution of tangent tensions in the stuffing box at a pressure of 0.5 atm of the medium. Figure 5 shows the tangent tensions distributed in the stuffing box at a medium pressure of 1.5 atm. The experimental results are only preliminary, since it was impossible to produce a force in the models, which would simulate the tension at a significant pressure of the medium (1 atm or more). However, the results show the effectiveness of using the discussed method in designing sealing units. There are 5 diagrams, 1 table and 7 references: 6 Soviet and 1 English.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

Card 2/2

LAVRENT'YEVA, V.A.; ROY, V.A.; TOLSTOV, V.N.; FOKINA, V.I.; SHINGARKIN, S.M.

New advances in the treatment of multiple sclerosis, preliminary
report. Zdrav. Kazakh. 21 no. 4:42-44 '61. (MIRA 14:4)

1. Iz Ural'skoy oblastnoy bol'nitsy.
(MULTIPLE SCLEROSIS)

AVDEYEVA, N.V.; LAVRENT'YEVA, V.A.; SHPITS, I.I.

Bacterial contamination of semi prepared and prepared food products (from data in Dnepropetrovsk). Vop. pit. 21 no.2:
60-63 Mr-Ap '62. (MIRA 15:3)

1. Iz laboratorii (zav. I.I. Shpits) Dnepropetrovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
(DNEPROPETROVSK—FOOD CONTAMINATION)

GABRIELYAN, A.G.; KOTEL'NIKOV, V.M.; LAVRENT'YEVA, V.S.

Characteristics of carbonate reservoir rocks in Carboniferous
sediments of Stalingrad Province. Geol. nefti i gaza 5 no. 3:29-
34 Mr '61. (MIRA 14:4)

1. Upravleniye Stalingradneftegaz.
(Stalingrad Province—Rocks, Carbonate)

SIDORKOV, A.M.; PANCHENKO, Ya.I.; LAVRENT'YEVA, V.S.

Management of the rural drugstore system. Apt.delo 14 no.23
(MINA 19:1)
9-13 Mr.Ap '65.

1. Tsentral'nyy aptechnyy nauchno-issledovatel'skiy institut,
Moskva.

SIDORKOV, A.M.; LAVRENT'YEVA, V.Z.

Experience in the work of public councils in pharmacies.
Aptech. delo 12 no.3:14-18 My-Je '63 (MIRA 17:2)

LAVRENT'YEVA, V.Z.; SEMEYKINA, L.A.; SIDORKOV, A.M.

Dispensing of drugs by medical personnel. Apt. delo 12
(MIRA 17:2)
no.6:48-51 N-D '63.

1. Tsentral'nyy aptechnyy nauchno-issledovatel'skiy institut.

LAVRENT'YEVA, V.Z.; MOKROUSOV, V.V.

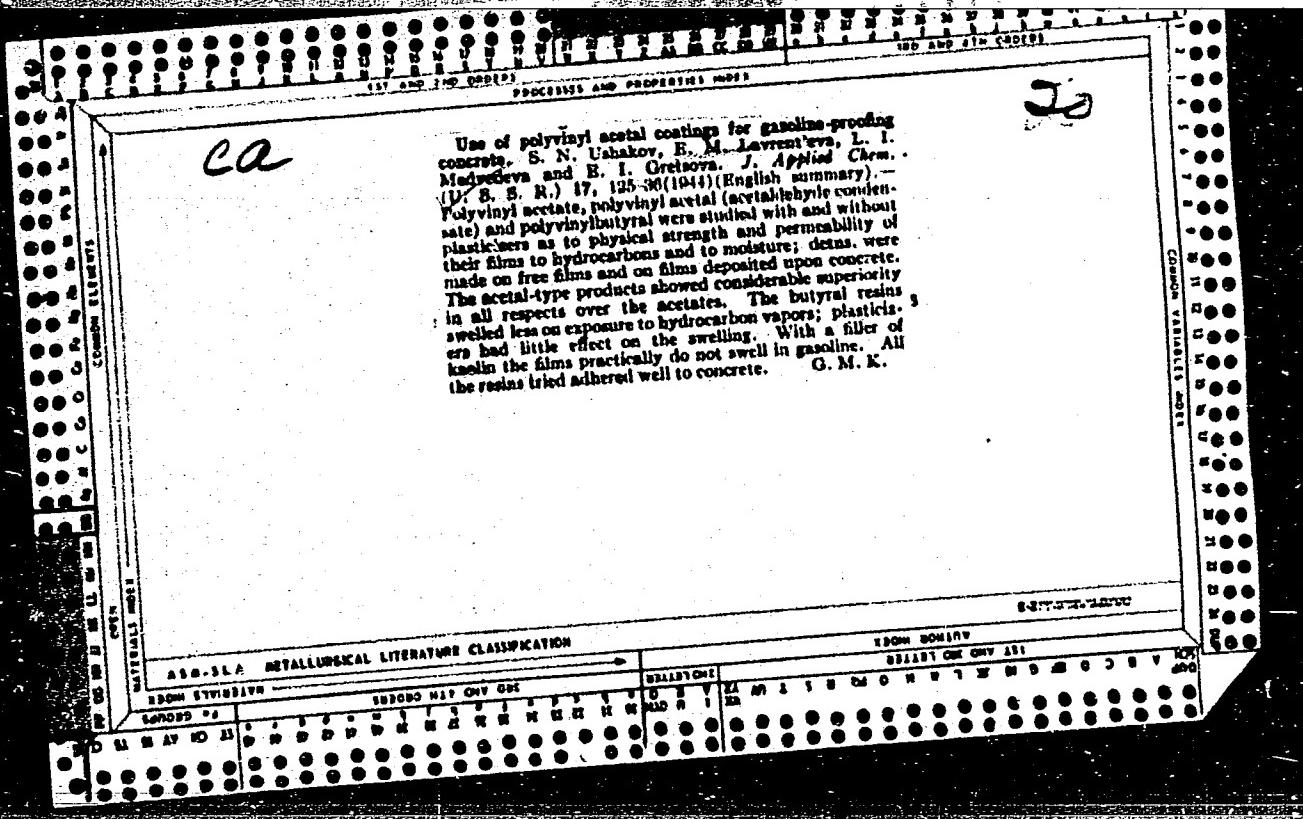
Results of the work of the central district pharmacies of
Stavropol Territory in the consolidated districts. Apt.
delo 13 no.5:10-13 S-0 '64.

(MIRA 18:3)

1. Tsentral'nyy aptechnyy nauchno-issledovatel'skiy institut,
Moskva.

STROKOV, I. M. LAVRENT'YEVA, V. S.

Role of the central district pharmacy in a rural area. April
(MIRA IS-11)
date 14 no. 515-28 3-6 '65.
1. General'nyy nauchno-issledovatel'skiy aptechnyy institut,
Moskva.



LAVRENT'YEVA, Ye.M.

B. T. R.
Vol. 3 No. 4
Apr. 1954
Chemistry-Organic

4617* Alkali Derivatives of Polyvinyl Alcohol. (Russian.)
S. N. Ushakov and E. M. Lavrent'eva, *Zhurnal Prikladnoi*
Khimii, v. 26, no. 9, Sept. 1953, p. 960-968.

Describes action of aqueous solutions of caustic soda. Product is
analogous to the alkali derivative of cellulose. Tables, graph,
photograph. 7 ref.

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LAVRENT'YEVA, Ye. M.

~~Synthesis of benzyl ethers of polyvinyl alcohol. N. N.~~
Ushakov and E. M. Lavrent'eva. Zhar. Priklad. Khim. 28, 407-13 (1955); J. Appl. Chem. U.S.S.R. 28, 383-9 (1955).
(Partial translation) — Treatment of polyvinyl alk. in ad.
with PhCH₂Cl at 65-70° with ether links.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928820010-1

LAVRENT'YEV, E. M., and USHAKOV, S. N.

"A few new polymers derived from polyvinylalcohol," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 28 Jan-2 Feb 57, Moscow, Polymer Research Inst.

B-3,084,395

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928820010-1"

LAVRENT'YEVA, Ye. M.

USHAKOV, S.N., sasluzhennyy deyatel' nauki i tekhniki RSFSR, prof.;

LAVRENT'YEVA, Ye.M., mladshiy nauchnyy sotrudnik.

Growth of synthetic fiber production. Tekst. prom. 18 no. 3:51-52
Mr '58. (MIRA 11:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Ushakov)
(Textile fibers, Synthetic)

USHAKOV, S.N.; LEVRENT'YEVA, Ye.M.

Synthesis of vinyl acetate copolymers with crotonic acid and its
derivatives. Zhur.prikl.khim. 31 no.11:1686-1691 N '58. (MIRA 12:2)

(Vinyl acetate)

(Crotonic acid)

SOV/62-59-1-15/38

5(3)
AUTHORS:

Ushakov, S. N., Lavrent'yeva, Ye. M., Podgorskaya, K. S.

TITLE:

On the Synthesis of Methylol Croton Amide (O sinteze metilol-krotonamida)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1959, Nr 1, pp 91 - 94 (USSR)

ABSTRACT:

There are no data available in publications on the synthesis of methylol croton amide. In the present paper it was obtained by the authors according to the following scheme: crotonic acid → crotonic acid chloride → crotonic acid amide → methylol croton amide. Crotonic acid was synthesized from malonic acid by the interaction with acetaldehyde in pyridine and with ethyl alcohol as a solvent. Crotonyl chloride was obtained by the effect of thionyl chloride on solid crotonic acid. Its yield amounted to 70% instead of 37% as mentioned in publications. There are numerous data on the synthesis of croton amide (Refs 4-9). It was obtained most easily by the effect of crotonyl chloride on liquid ammonia in ether solution at -35°. Methylol croton amide

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1/2

On the Synthesis of Methylol Croton Amide

SOV/62-59-1-15/32

was synthesized by the interaction of croton amide with paraform in the presence of sodium ethylate as a catalyst. Table 1 gives some data on some experiments of methylol croton amide synthesis. Methylol croton amide represents needle-shaped crystals which at low temperature are easily dissolved in water, alcohol and dioxane, and on heating in ethyl acetate, vinyl acetate and benzene. It was found that methylol croton amide can form ether on heating without a catalyst. The ether was obtained by heating methylol croton amide in toluene and distilling off the reaction water with the vapors of the solvent in the absence of the catalyst (Table 2). As may be seen from the analysis, the amount of nitrogen in ether approaches the theoretical content, and the melting point increased from 87° for methylol croton amide up to 136° for ether. The ether of methylol croton amide represents needle-shaped lustrous crystals which at low temperature are soluble in acetic acid and on heating in water, dioxane, benzene and xylene. There are 2 tables and 11 references, 1 of which is Soviet.

~~Card 273~~

2/2 Inst. Higher Molecular Compounds, A5 USSR

USHAKOV, S.N.; LAVRENT'YEVA, Ye.M.; GEYSBERG, S.M.; SHEMKOV, N.K.

Synthetic fibers from polyvinyl alcohols. *Ehim.volok.* no.4:
(MIRA 13:2)
3-5 '59.

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Leningrad-
skiy zavod.
(Textile fibers, Synthetic) (Vinyl alcohol)

5 (3)
AUTHORS:Ushakov, S. N., Lavrent'yeva, Ye. M.,
Podgorskaya, K. S. 307/62-59-5-12/40

TITLE:

On the Synthesis of Methylenе Biscrotonamide (O sinteze
metilen-bis-krotonamida)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1959, Nr 5, pp 888-891 (USSR)

ABSTRACT:

There are no references in publications with regard to the synthesis mentioned in the title. These compounds are interesting: they contain nitrogen, two double bonds, and are capable of copolymerization. I. A. Arbuzova carried out tests with acryl derivatives at the authors' institute. In this work, methylene biscrotonamide was synthesized in three different ways: 1) two molecules of methylol crotonamide separate water and formaldehyde, 2) the amide of crotonic acid separates water under the effect of methylol crotonamide, 3) the di-ester of methylol crotonamide separates formaldehyde with thermal treatment. The first reaction took place without catalyst by heating a xylene solution of methylol crotonamide. Table 1 shows data of this synthesis. Nitrogen content, double bonds, melting temperature, molecular weight and solubility of

Card 1/2

On the Synthesis of Methylene Biscrotonamide

SCV/52-59-5-18/40

the compound obtained were determined. (Data on analysis in table 2). The second reaction too, took place in xylene, with heating and without a catalyst. Tables 3 and 4 contain the same determinations of substances synthesized in the second way as table 2. Tables 5 and 6 show the corresponding data of the third way of synthesis. In this case the reaction desired was brought about by heating the di-ester in various aromatic solvents. The bromine number of the methylene biscrotonamide of the last two compounds obtained was close to the theoretically determined value. There are 6 tables.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute of High-molecular Compounds of the Academy of Sciences, USSR)

SUBMITTED: August 13, 1957

Card 2/2

USHAKOV, S.N.; LAVRENT'YEVA, Ye.M.

Synthesis of thermosetting copolymers of vinyl acetate and
vinyl alcohol with methylolcrotonamide. Vysokom.sosed. 1
no.12:1862-1867 D '59. (MIRA 13:5)

1. Institut vysokomelekulyarnykh soyedineniy AN SSSR.
(Vinyl acetate) (Vinyl alcohol) (Crotonamide)

BOGOMOLOVA, L.G.; USHAKOV, S.N.; IZMAYLOVA, Ye.F.; LAVRENT'YEVA, Ye.M.;
DEKSTER, B.G.; PETROVA, L.I.

Effect of thixotropic gel of iodopolyvinyl alcohol on experi-
mental atherosclerosis. Pat. fiziol. i eksp. terap. 9 no.2:
8-12 Mr-Ap '65. (MIRA 18:5)

1. Leningradskiy institut perelivaniya krovi (dir. - dotsent A.D.
Belyakov; nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR
prof. A.N.Filatov) i Institut vysokomolekulyarnykh soyedineniy
(dir. - chlen-korrespondent AN SSSR prof. M.M.Koton), Leningrad.

ACCESSION NR: AP4043781

S/0190/64/006/008/1440/1441

AUTHOR: Ushakov, S. N., Lavrent'eva, Ye. N., Podgorskaya, K. S., Petrova, L. I.

TITLE: The synthesis of copolymers of vinylpyrrolidone and vinyl alcohol

SOURCE: Vy'sokomolekulyarnye soyedineniya, v. 6, no. 8, 1964, 1440-1441

TOPIC TAGS: copolymer, vinylpyrrolidone copolymer, vinyl alcohol copolymer, polyvinyl, diazoisobutryonitrile, methanolysis

ABSTRACT: Copolymerization of vinylpyrrolidone with vinylacetate (9:1) was carried out in the presence of diazoisobutryonitrile as the initiator to produce a copolymer from which, by subsequent (6, 8 and 10 hrs.) methanolysis with sodium or potassium methylate in absolute methanol at 20C, four new polymers were prepared with yields of 49.9, 49.64, 48.6 and 44.4% of the theoretical. The copolymers, precipitated with ether from the methanol solution in the form of white flakes, were washed on the filter with ether and dried in a vacuum at room temperature. Specifications for the procedure, the structural component pattern and the content of nitrogen, hydroxyl groups and acetate groups in the polymers are tabulated. The viscosity of the polymers was found to increase with the copolymerization duration. Orig. art. has: 1 table.

Cont 1/2

ACCESSION NR: AP4043781

ASSOCIATION: Institut vy*sokomolekulyarny*kh soyedineniy AN SSSR (Institute of High-Molecular Compounds, AN SSSR).

SUB CODE: MT, OC

SUBMITTED: 20Sep63

OTHER: 003

NO REF SOV: 001

Card 2/2

ACCESSION NR: AP4043781

S/0190/64/006/008/1440/1441

AUTHOR: Ushakov, S. N., Lavrent'yeva, Ye. N., Podgorskaya, K. S., Petrova, L. I.

TITLE: The synthesis of copolymers of vinylpyrrolidone and vinyl alcohol

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 8, 1964, 1440-1441

TOPIC TAGS: copolymer, vinylpyrrolidone copolymer, vinyl alcohol copolymer, polyvinyl, diazoisobutyronitrile, methanolysis

ABSTRACT: Copolymerization of vinylpyrrolidone with vinylacetate (9:1) was carried out in the presence of diazoisobutyronitrile as the initiator to produce a copolymer from which, by subsequent (6, 8 and 10 hrs.) methanolysis with sodium or potassium methylate in absolute methanol at 20C, four new polymers were prepared with yields of 49.9, 49.64, 48.6 and 44.4% of the theoretical. The copolymers, precipitated with ether from the methanol solution in the form of white flakes, were washed on the filter with ether and dried in a vacuum at room temperature. Specifications for the procedure, the structural component pattern and the content of nitrogen, hydroxyl groups and acetate groups in the polymers are tabulated. The viscosity of the polymers was found to increase with the co-polymerization duration. Orig. art. has: 1 table.

Card 1/2

Card 2/2

GLIKMAN, S.A.; USHAKOV, S.N.; KORCHAGINA, Ye.P.; LAVRENT'YEVA, Ye.N.

Certain properties of iodopolyvinyl alcohol gels. Dokl.
AN SSSR 154 no.2:372-374 Ja'64. (MIRA 17:2)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i
Saratovskiy gosudarstvennyy universitet im. N.G. Cherny-
shevskogo. 2. Chlen-korrespondent AN SSSR (for Ushakov).

LEONOV, Leonid Ivanovich; YEGOROV, K.D., redaktor; LAVRENT'YEVA, Ye.V..
redaktor.

[In high latitudes; notes of a naturalist] V. vysokikh shirotakh; sa-
piski naturalista. Moskva, Gos. izd-vo geogr. lit-ry, 1953, 139 p.
(Arctic regions— Zoogeography) (MLRA 7:7)

TYUNIN, Sokrat Nikolayevich; DOLGOPOLOV, Konstantin Vavil'yevich;
LAVRENT'IEVA, Ye.V., redaktor; RIVINA, I.N., tekhnicheskii
redaktor

Voronezh. Moskva, Gos. izd-vo geogr. lit-ry, 1954. 55 p.
(Voronezh--Description) (MLRA 8:1)

BODRIN, Vladimir Vladimirovich; LAVRENT'YEVA, Ye.V., redaktor; GLEIKH,
D.A., tekhnicheskiy redaktor

[Hungarian People's Republic; a geographical sketch] Vengerskaia
Narodnaia Respublika; geograficheskii ocherk. Moskva, Gos.izd-vo
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(MLRA 8:9)
(Hungary--Geography)

ZABRODSKAYA, Mariya Pavlovna; LAVENT'YEVA, Ye.V., redaktor; GOLITSYN,
A.V., redaktor kart; RIVINA, T.N., tekhnicheskiy redaktor

[Russian travellers in Africa] Russkie puteshestvenniki po Afrike.
Moskva, Gos. izd-vo geograficheskoi lit-ry, 1955. 86 p. (MLRA 8:6)
(Africa--Description and travel)

LAVRENT'YEVA, Ye.V.

KOSTINSKIY, Dmitriy Natanovich; POPOV, K.M., professor, doktor
ekonomiceskikh nauk, redaktor; LAVRENT'YEVA, Ye.V., redaktor;
GLEYKH, D.A., tekhnicheskiy redaktor.

Nepal. Moskva, Gos. izd-vo geogr.lit-ry, 1955. 102 p. (MLRA 9:1)
(Nepal--Description and travel)

LAVRENT'YEVA, Ye. V.

OKLOVA, Yelena Vladimirovna; ROZIN, Mark Solomonovich; POPOV, K. M.,
redaktor; LAVRENT'YEVA, Ye. V., redaktor; KUSHKEVA, S.M.,
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[India's mineral resources] Bogatstva nadr Indii. Moskva, Gos.
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TIKHOMIROV, V.P., otvetstvennyy redaktor; LAVRENT'YEVA, Ye.V., redaktor;
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VOL'SKIY, Viktor Votslavovich; GLINKIN, Anatoliy Nikolayevich; LAVRENT'YEVA,
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LAVRENT'YEVA, Ye. V.

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(Yellow River)

SIUKA, Aleksandr Yevgen'yevich; LAVRENT'YEVA, Ye.V., red.; GLEYKH, D.A.,
tekhn.red.

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107 p. (MIRA 11:4)
(France--Geography, Economic)

GORNUNG, Mikhail Borisovich; LAVRENT'YEVA, Ye.V., red.; VILENSKAYA, E.N.,
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[Algeria; its physical geography] Alzhiria; fiziko-geografiches-
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(Algeria--Physical geography)

SEREБRYANNYY, Leonid Ruvimovich; LAVRENT'YEVA, Ye.V., red.; VILENSKAYA,
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[The land of fire and ice] Strana ognia i l'da. Moskva, Gos.
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(Iceland--Description and travel)

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A.V., red.kart; GLEYKH, D.n., tekhn.red.

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(Lebanon--Description and travel)

TIMASHEV, Anatoliy Konstantinovich; LAVRENT'YEV, Ye. V., red.; POPOVA, V.I., mladshiy red.; NOGINA, N.I., tekhn.red.

[From the Carpathian Mountains to the Baltic Sea; geographer's notes on the Polish People's Republic] Ot Karpat do Baltiki; zametki geografa o Pol'skoi Narodnoi Respublike. Moskva, Gos. izd-vo geogr.lit-ry, 1959. 126 p. (MIRA 12:11)

(Poland--Description and travel)
(Poland--Economic conditions)

POTEKHIN, Ivan Iosimovich, stnograf; LAVRENT'YEVA, Ye.V., red.;
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[Ghana today; a diary, 1957] Gana segodnia; dnevnik,
1957 g. Moskva, Gos.isd-vo geogr.lit-ry, 1959. 157 p.
(MIRA 12:6)
(Ghana--Description and travel)

ZONN, Sergey Vladimirovich; LAVRENT'YEVA, Ye.V., red.; POPOVA, V.I.,
mladshiy red.; KOSHELEVA, S.M., tekhn.red.

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Kitaja. Moskva, Gos.izd-vo geogr.lit-ry, 1959. 160 p.

(MIRA 13:3)

(China, Central and South--Physical geography)

SINITSYN, Vasiliy Mikhaylovich; ZABIROV, B.Sh., red.; LAVRENT'YEVA,
Ye.Y., red.; MAL'CHEVSKIY, G.N., red.kart; NOGINA, N.I.,
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[Central Asia] Tsentral'naya Azia. Moskva, Gos.izd-vo
geogr.lit-ry, 1959. 454 p. (MIRA 12:7)
(Asia, Central--Physical geography)

YONAK, Jan [Jonesk, Jan]; KOVALEVSKIY, V.S. [translator]; LAVRENT'YEVA,
Ye.V., red.; POPOVA, V.I., mладший red.; VILENSKAYA, E.N.,
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[Two thousand and two hundred kilometers along the Danube]
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(Danube Valley--Description and travel)

LESHCHINKER, Roal'd Yefimovich; GOKHMAN, V.M., red.; LAVRENT'YEVA, Ye.V.,
red.; POPOVA, V.I., mladshiy red.; MAL'CHEVSKIY, G.N., red.
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VITVITSKIY, Georgiy Nikolayevich; LAVRENT'YEVA, Ye.V., red.; POPOVA, V.I.,
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Tentative values of stellar declinations for latitudinal observations
in Poltava during the International Geophysical Year. Mezhdunar.
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the Ukrainian S.S.R.
(Astronomy, Spherical and practical)

ORLOV, Aleksandr Yakovlevich, zasl. deyatel' nauki USSR [1880-1954]; AK-
SENT'YEVA, Z.N., otv. red.; LAVRENT'YEVA, Ye.V., starshiy nauchnyy
sotr., red.; POPOV, N.A., starshiy nauchnyy sotr., red.; FEDOROV,
Ye.P., starshiy nauchnyy sotr., red.; ORLOV, B.A., starshiy nauchnyy
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Kiev, Izd-vo Akad. nauk USSR. Vol.1. 1961. 353 p. (MIRA 14:10)

1. Deystviteľ'snyy chlen AN USSR i chlen-korrespondent AN SSSR
(for Orlov).
2. Chlen-korrespondent AN USSR (for Aksent'yeva).
3. Poltavskaya gravimetriceskaya observatoriya (for Lavrent'yeva,
Popov, Fedorov).
4. Glavnaya astronomicheskaya observatoriya v Pul-
kove (for Orlov, B.A.).
(Astronomy) (Earth) (Latitude)
(Orlov, Aleksandr Yakovlevich, 1880-1954)

ORLOV, Aleksandr Yakovlevich (1880-1954); AKSENT'YEVA, Z.N., otv.red.; LAVRENT'YEVA, Ye.V., starshiy nauchnyy sotr., red.; POPOV, N.A., starshiy nauchnyy sotr. red.; FEDOROV, Ye.P., starshiy nauchnyy sotr., red.; ORLOV, B.A., starshiy nauchnyy sotr., red.; LEPKIY, S.D., red. izd-va; RAKHLINA, N.P., tekhn. red.

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Kiev, Izd-vo Akad.nauk USSR. Vol.2. 1961. 317 p. (MIRA 14:12)

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(Astronomy) (Geophysics) (Orlov, Aleksandr IAkovlevich, 1880-1954)

MASHBITS, Yakov Grigor'yevich; GOKHMAN, V.M., otv. red.;
LAVRENT'YEVA, Ye.V., red.; SHAFOVALOVA, N.S., mladshiy red.;
KISELEVA, Z.A., red. kart; BURLAKA, N.P., tekhn. red.

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ekonomiko-geograficheskaya kharakteristika. Moskva, Gos.
izd-vo geogr. lit-ry, 1961. 296 p. (MIRA 15:3)
(Mexico--Economic geography)

KOZHEVNIKOV, Vladimir Aleksandrovich; SEDOV, Leonid Aleksandrovich;
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(MIRA 15:2)
(Laos--Economic geography)

GALIN, Yuriy Pavlovich; LAVRENT'YEVA, Ye.V., red.; MARTYNOVA, V.A.,
mladshiy red.; VILENSKAYA, E.N., tekhn. red.

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(Bolivia--Economic geography)

ASOYAN, Nadezhda Samuilovna; LAVRENT'YEVA, Ye.V., red.; SHAPOVALOVA,
N.S., mladshiy red.; MAL'TCHEVSKIY, G.N., red.kart; VILENSKAYA,
E.N., tekhn.red.

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ROZIN, Mark Solomonovich; POPOV, K.M., doktor ekon. nauk, red.;
SOKOLOV, G.A., doktor geol.-miner. nauk, red.; LAVRENT'YEVA,
Ye.V., red.; SHAPOVALOVA, N.S., mladshiy red.; KISELEVA,
Z.A., red. kart.; VILENSKAYA, E.N., tekhn. red.

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Geografiia gornodobyvaiushchei promyshlennosti kapitalisti-
cheskogo mira. Moskva, Geografgiz, 1962. 556 p.
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ANDREYEVA, Vera Mikhaylovna; POPOV, K.M., doktor ekon. nauk, otv.
red; ~~LAVRENT'YEVA, Ye.V.~~ red.; SHAPOVALOV, N.S., mlad.
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SIDENKO, Viktor Petrovich, zhurnalist; LAVRENT'YEVA, Ye.V., red.;
SHAPOVALOVA, N.S., mlad. red.; GOLITSIN, A.V., red.
kart; VAS'KINA, R.S., tekhn. red.

[The Ivory Coast Republic] Respublika Bereg Slonovoi Kosti.
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KATIN, Vladimir Konstantinovich; LAVRENT'YEVA, Ye.V., red.;
SHAPOVALOVA, N.S., mladshiy red.; ARDANOVA, N.P.,
tekhn. red.

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i prikliucheniia. Moskva, Geografgiz, 1963. 93 p.
(MIRA 17:3)

PULYARKIN, Valeriy Alekseyevich; POPOV, K.M., doktor ekon.
nauk, otv. red.; LAVRENT'YEVA, Ye.V., red.

[Afghanistan; its economic geography] Afganistan; ekono-
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LESHCHINER, Roald Yefimovich; LAVRENT'YEVA, Ye.V., red.

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LAVRENT'YEVA, Ye. V.

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